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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/889,992	01/09/2002	Gilles Lebouill	11345/035001	4719
22511	7590	12/29/2005	EXAMINER	
OSHA LIANG L.L.P. 1221 MCKINNEY STREET SUITE 2800 HOUSTON, TX 77010			SHEPARD, JUSTIN E	
		ART UNIT	PAPER NUMBER	
		2617		

DATE MAILED: 12/29/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	09/889,992	LEBOUIL, GILLES	
	<b>Examiner</b>	<b>Art Unit</b>	
	Justin E. Shepard	2617	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) Responsive to communication(s) filed on 04 November 2005.  
 2a) This action is FINAL.                    2b) This action is non-final.  
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) Claim(s) 1-34 is/are pending in the application.  
 4a) Of the above claim(s) 18,20 and 34 is/are withdrawn from consideration.  
 5) Claim(s) \_\_\_\_\_ is/are allowed.  
 6) Claim(s) 1-17,19 and 21-33 is/are rejected.  
 7) Claim(s) \_\_\_\_\_ is/are objected to.  
 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) The specification is objected to by the Examiner.  
 10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.  
     Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
     Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
 a) All    b) Some \* c) None of:  
 1. Certified copies of the priority documents have been received.  
 2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |   |   |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)                     |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                    | Paper No(s)/Mail Date. _____  |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____. | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
|   | 6) <input type="checkbox"/> Other: _____                                    |

## **DETAILED ACTION**

### ***Response to Amendment***

The amendment filed on 11/4/2005 under 37 CFR 1.131 is sufficient to overcome the Gotwald reference.

### ***Response to Arguments***

Applicant's arguments, see pages 12-13, filed 11/4/2005, with respect to the rejection(s) of claim(s) 19 under 35 U.S.C. 103(a) have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Horlander reference.

### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1, 2, 3, 4, 5, 6, 7, 12, 17, 19, 21, 22, 23, 24, 25, 28, and 33 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gotwald in view of Horlander.

Referring to claim 1, Gotwald discloses a method of transmission of digital information in a digital broadcast system comprising a central transmission station and at least one decoder (column 3, lines 26-27, 51-52), the central station transmitting at

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least one transport stream (column 4, lines 8-9) comprising a stream of packets encapsulating data sections within their payloads (column 4, lines 31-32), at least one encapsulated section includes an address (column 4, lines 66-67, 22-23) used to control the reception thereof by the at least one decoder (column 5, lines 29-32), wherein using a fixed internet protocol (IP) address in an address assignment message (column 4, lines 66-67; column 5, lines 1-6).

Gotwald does not disclose a method where the encapsulated section includes a MAC address; and where the MAC address is dynamically assigned by the central transmission station and communicated to said at least one decoder.

Horlander discloses a method where the encapsulated section includes a MAC address; and where the MAC address is dynamically assigned by the central transmission station and communicated to said at least one decoder (column 31, lines 41-43 and 44-49).

At the time of the invention it would have been obvious for one of ordinary skill in the art to use the method of dynamically assigning MAC addresses, as taught by Horlander, in the method disclosed by Gotwald. The motivation would have been to allow the device to have a moving address on the Internet; therefore it would be less susceptible to attacks from the Internet.

Claim 21 is rejected on the same grounds as claim 1.

Referring to claim 2, Gotwald discloses a method as claimed in claim 1, wherein said at least one encapsulated section corresponds to at least one datagram section (column 5, line 13) used to contain internet protocol data (column 4, lines 31-32), the

data contained within a datagram section also including the fixed IP address (Note: in the specification the applicant has noted that in a system that adheres to the TCP/IP protocol, that the "datagram is normally addressed at the network layer with an IP address" (page 2, lines 4-5)).

Referring to claim 3, Gotwald discloses a method as claimed in claim 1, wherein said at least one encapsulated section transmitted to said at least one decoder and identified by an access control address is communicated from the central transmission station to said at least one decoder via a telecommunications network (column 3, lines 48-49).

Referring to claims 4 and 5, Gotwald does not disclose a method as claimed in claim 1, wherein the address assignment message is sent in response to a MAC address request sent to the central station by the at least one decoder; wherein the address assignment message is communicated back to the at least one decoder from the central transmission station via a telecommunications network.

Horlander discloses a method as claimed in claim 1, wherein the address assignment message is sent in response to a MAC address request sent to the central station by the at least one decoder (column 31, lines 41-43 and 44-49); wherein the address assignment message is communicated back to the at least one decoder from the central transmission station via a telecommunications network (column 31, line 43; Note: the CeBus is interpreted as being equivalent to a telecommunications network).

At the time of the invention it would have been obvious for one of ordinary skill in the art to use the method of dynamically assigning MAC addresses, as taught by

Horlander, in the method disclosed by Gotwald. The motivation would have been to allow the device to have a moving address on the Internet; therefore it would be less susceptible to attacks from the Internet.

Referring to claim 6, Gotwald discloses a method as claimed in claim 4, wherein the MAC address request sent by the at least one decoder includes an Internet protocol number identifying that decoder to the central transmission station (column 5, lines 4-6; Note: the IP address would have to be known to send data to a device without a fixed MAC address).

Referring to claim 7, Gotwald discloses a method as claimed in claim 4, wherein the MAC address request includes an operator identity value associated with the subscription of the owner of the decoder to the services proposed by an operator broadcasting information via the central transmitting means (column 5, lines 29-32).

Referring to claim 12, Gotwald discloses a method as claimed in claim 1, wherein the address assignment message further includes information to enable said at least one decoder to select a packet transport stream containing the data associated with the MAC address amongst a plurality of transport packet streams (column 5, lines 29-32; Note: it is well known that IP data includes a MAC address).

Referring to claim 17, Gotwald discloses a method as claimed in claim 1, wherein at least some of the data encapsulated within a packet payload is encrypted (column 4, lines 49-51).

Referring to claim 19, Gotwald discloses a method of communication of datagram packets in a digital communication network comprising at least one central

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control station and a plurality of remote terminals (column 3, lines 26-27, 51-52; column 1, lines 60-62), in which the datagram packets (column 5, line 13) include at least one medium access control address (column 5, lines 29-32) associated with one communication layer of the network and an internet protocol address (column 5, lines 4-5) associated with a second communication layer of the network.

Gotwald does not control a method in which the at least one medium access control address is dynamically assigned by the central control station in response to a request from a remote terminal.

Horlander discloses a method in which the at least one medium access control address is dynamically assigned by the central control station in response to a request from a remote terminal (column 31, lines 41-43 and 44-49).

At the time of the invention it would have been obvious for one of ordinary skill in the art to use the method of dynamically assigning MAC addresses, as taught by Horlander, in the method disclosed by Gotwald. The motivation would have been to allow the device to have a moving address on the Internet; therefore it would be less susceptible to attacks from the Internet.

Referring to claim 22, the claim is rejected because it has the same limitations as rejected claim 2.

Referring to claim 23, Gotwald discloses an apparatus as claimed in claim 21, comprising means for communicating to said decoder via a telecommunications network at least one encapsulated section identified by the MAC address (column 3, lines 48-49 and 56-57).

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Referring to claims 24 and 25, Gotwald does not disclose an apparatus as claimed in claim 21, comprising means for receiving from a decoder a MAC control address request, said apparatus being adapted to communicate the address assignment message to the decoder in response to said MAC address request; adapted to communicate said address assignment message to said decoder via a telecommunications network.

Horlander discloses an apparatus as claimed in claim 21, comprising means for receiving from a decoder a MAC control address request, said apparatus being adapted to communicate the address assignment message to the decoder in response to said MAC address request; adapted to communicate said address assignment message to said decoder via a telecommunications network (column 31, lines 41-43 and 44-49).

At the time of the invention it would have been obvious for one of ordinary skill in the art to use the method of dynamically assigning MAC addresses, as taught by Horlander, in the method disclosed by Gotwald. The motivation would have been to allow the device to have a moving address on the Internet; therefore it would be less susceptible to attacks from the Internet.

Referring to claim 28, the claim is rejected because it has the same limitations as rejected claim 12.

Referring to claim 33, Gotwald discloses an apparatus as claimed in claim 21, comprising means for encrypting data encapsulated within a packet payload (column 4, lines 49-51).

Claims 8-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gotwald in view of Horlander as applied to claim 4 above, and further in view of Mao.

Referring to claim 8, Gotwald in view of Horlander does not disclose a method as claimed in any of claims 4, wherein the MAC address request includes an indication of whether the decoder wishes to receive messages in one of a unicast and a multicast mode.

Mao discloses a method as claimed in any of claims 4, wherein the request includes an indication of whether the decoder wishes to receive messages in one of a unicast and a multicast mode (column 6, lines 55-61).

Mao does not disclose a method where the request is the request for the MAC address.

At the time of the invention it would have been obvious for one of ordinary skill in the art to note that the request would occur during the MAC address request. The motivation would have been to establish that the transfer would be unicast or multicast as early as possible as a way of preparing for the bandwidth required for the current users.

It would have been obvious at the time of the invention to one of ordinary skill in the art to modify the Gotwald method to offer the subscriber to choose between multi- and uni-cast streams from the network head. The motivation for doing so would have been to enable the subscriber to observe either general media or personalized media (column 6, lines 58-61).

Referring to claims 9 and 10, Horlander discloses a method as claimed in claim 8 wherein the address assignment message sent by central transmitting station contains a unique access control address in response to a unicast address request and a shared control address in response to a multicast address request; in which the unicast address is a dynamic address assigned at the beginning of a session, in response to the address request received from the decoder (column 31, lines 60-62).

At the time of the invention it would have been obvious for one of ordinary skill in the art to use the multicast method, taught by Horlander, in the method disclosed by Gotwald. The motivation would have been to allow for the headend to send a message to every subscriber without having addressing each separately, which would improve performance.

Claim 11 is rejected under 35 U.S.C. 103(a) as being unpatentable over Gotwald in view of Horlander as applied to claim 4 above, and further in view of Hakulinen.

Referring to claim 11, Gotwald and Horlander do not disclose a method as claimed in any of claims 4, in which the address request message includes an indication of whether the decoder will remain connected to receive data via a telecommunications network after the communication of the address request message.

Hakulinen discloses a method as claimed in any of claims 4, in which the address request message includes an indication of whether the decoder will remain connected to receive data via a telecommunications network after the communication of the address request message (page 5, lines 12-15; Note: for this device to stay

connected it would be required to send another request which is being interpreted as equivalent to indicating that the device should remain connected in a request message).

It would have been obvious at the time of the invention to one of ordinary skill in the art to modify the Gotwald method to give up the connection when the transmission was over. The motivation for doing this would have been to enable the network resources to return to the network when a subscriber was finished accessing them.

Claims 13, 14, 29, and 30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gotwald in view of Horlander as applied to claim 1 above, and further in view of Mao.

Referring to claim 13, Gotwald in view of Horlander does not disclose a method as claimed in any preceding claim in which the address assignment message further includes information to enable said at least one decoder to select the service containing the data associated with the access control address from a plurality of services within a transport packet stream.

Mao discloses a method as claimed in any preceding claim in which the address assignment message further includes information to enable said at least one decoder to select the service containing the data associated with the access control address from a plurality of services within a transport packet stream (column 6, lines 48-53, 55-61).

It would have been obvious at the time of the invention to one of ordinary skill in the art to modify the Gotwald method to allow the subscriber to access a plurality of services from within the transport stream. The motivation for doing this would have

been to give the subscriber the ability to access general media, or personalized media, all from the same service (column 6, lines 58-61)

Referring to claim 29, the claim is rejected because it has the same limitations as rejected claim 13.

Referring to claim 14, Horlander discloses a method as claimed in claim 13 wherein the address assignment message further includes information regarding the data streams carried by that service and identifying the data stream containing the packetised data associated with the assigned MAC address (column 31, lines 60-62; Note: sending multicast on one MAC address and unicast over another is interpreted as being equivalent to the above limitation).

At the time of the invention it would have been obvious for one of ordinary skill in the art to use the multicast method, taught by Horlander, in the method disclosed by Gotwald. The motivation would have been to allow for the headend to send a message to every subscriber without having addressing each separately, which would improve performance.

Claim 30 is rejected on the same grounds as claim 14.

Claims 15 and 31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gotwald in view of Horlander as applied to claim 1 above, and further in view of Edens.

Referring to claim 15, Gotwald in view of Horlander does not disclose a method as claimed in any preceding claim in which the central transmission station dynamically

controls which transport packet stream amongst a plurality of transport packet streams is used to carry encapsulated packet data addressed for said at least one decoder.

Edens discloses a method as claimed in any preceding claim in which the central transmission station dynamically controls which transport packet stream amongst a plurality of transport packet streams is used to carry encapsulated packet data addressed for said at least one decoder (column 33, lines 39-47).

It would have been obvious at the time of the invention to one of ordinary skill in the art to modify the Gotwald method to dynamically control which packet stream is used to carry data to subscribers. The motivation for doing this would have been to enable more bandwidth to be dedicated to certain subscribers (column 33, lines 43-44)

Referring to claim 31, the claim is rejected because it has the same limitations as rejected claim 15.

Claims 16 and 32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gotwald in view of Horlander as applied to claim 1 above, and further in view of Nandikonda.

Referring to claim 16, Gotwald in view of Horlander does not disclose a method as claimed in any preceding claim in which the central transmission station dynamically controls which service amongst a plurality of services on which encapsulated packet data addressed to said at least one decoder is broadcast.

Nandikonda discloses a method as claimed in any preceding claim in which the central transmission station dynamically controls which service amongst a plurality of

services on which encapsulated packet data addressed to said at least one decoder is broadcast (column 7, lines 6-9, 55-60).

It would have been obvious at the time of the invention to one of ordinary skill in the art to modify the Gotwald method to dynamically control which services were transmitted in which packets. The motivation for doing this would be to enable the easy separation of data at the receiving end (column 7, lines 58-59).

Referring to claim 32, the claim is rejected because it has the same limitations as rejected claim 16.

Claims 26 and 27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gotwald in view of Horlander as applied to claim 24 above, and further in view of Golden.

Referring to claims 26 and 27, Gotwald and Horlander do not disclose an apparatus as claimed in claim 24, wherein the address assignment message contains a unique access control address in response to a unicast address request and a shared control address in response to a multicast address request; wherein the unicast address is a dynamic address assigned at the beginning of a session, in response to the address request received from a decoder.

Golden discloses an apparatus as claimed in claim 24, wherein the address assignment message contains a unique access control address (column 37, lines 33-34) in response to a unicast address request and a shared control address (column 37, lines 30-32, 34-36) in response to a multicast address request; wherein the unicast

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address is a dynamic address assigned at the beginning of a session, in response to the address request received from a decoder (column 37, lines 33-34; Note: temporary is being interpreted as equivalent to dynamic).

It would have been obvious at the time of the invention to one of ordinary skill in the art to modify the Gotwald method to assign the temporary addresses disclosed in Golden. The motivation for doing this would have been to enable the network resources to return to the network when a subscriber was finished accessing them.

### ***Conclusion***

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Mimura; U.S. Patent Number 6,557,031; Transport Protocol Conversion Method and Protocol Conversion Equipment.

Dillon; U.S. Patent Number 6,351,467; System and Method for Multicasting Multimedia Content.

Hara; U.S. Patent Number 6,560,221; Communication Path Control Device, Method, and Unit.

Brodigan; U.S. Patent Number 6,219,355; Video and Data Communication System.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Justin E. Shepard whose telephone number is (571) 272-5967. The examiner can normally be reached on 7:30-5 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chris Kelley can be reached on (571) 272-7331. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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